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APPLICATION NO. FILLING/DATE GUSSINAMEDIINVENUGE ATJORNEY DOCKET, NO.

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09/470,155

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3M INNOVATIVE PROPERTIES COMPANY

OFFICE OF INTELLECTUAL PROPERTY COUNSEL

JING

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55235USA2A

EXAMINER

CHEN V

ART UNIT

PAPER NUMBER

1773

DATE MAILED:

10/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary

Application No. 09/470,155 Applicant(s)

JING

Examiner

Vivian Chen

Art Unit 1773



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address
A SH	<mark>for Reply</mark> ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE3 MONTH(S) FROM
af - If the be - If NO	ter SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely. period for reply is specified above, the maximum statutory	FR 1.136 (a). In no event, however, may a reply be timely filed cation. a, a reply within the statutory minimum of thirty (30) days will period will apply and will expire SIX (6) MONTHS from the mailing date of this
- Failur - Any i		y statute, cause the application to become ABANDONED (35 U.S.C. § 133). a mailing date of this communication, even if timely filed, may reduce any
Status		
1) 💢	Responsive to communication(s) filed on 7-16-01	
2a) 🗌	This action is FINAL . 2b) 💢 This act	tion is non-final.
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposi	tion of Claims	
4) 💢	Claim(s) <u>1-28</u>	is/are pending in the application.
4	la) Of the above, claim(s) <u>8, 9, and 11-28</u>	is/are withdrawn from consideration.
5) 🗆	Claim(s)	is/are allowed.
6) 💢	Claim(s) <u>1-7 and 10</u>	is/are rejected.
7) 🗆	Claim(s)	is/are objected to.
8) 🗆	Claims	are subject to restriction and/or election requirement.
Applica	ition Papers	
9) 🗆	The specification is objected to by the Examiner.	
10)	The drawing(s) filed on is/are	objected to by the Examiner.
11)	The proposed drawing correction filed on	is: a) □ approved b) □ disapproved.
12)	The oath or declaration is objected to by the Exam	iner.
13)□	under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d).
	☐ All b)☐ Some* c)☐ None of:	
	1. Certified copies of the priority documents have	
	2. Certified copies of the priority documents have	
	 Copies of the certified copies of the priority d application from the International Bure ee the attached detailed Office action for a list of th 	
14)	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. § 119(e).
Attachm	ent(s)	
_	otice of References Cited (PTO-892)	18] Interview Summary (PTO-413) Paper No(s).
, ,	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
	formation Disclosure Statement(s) (PTO-1449) Paper No(s). 4, 5	20) Other:

Art Unit: 1773

DETAILED ACTION

Election/Restriction

1. Applicant's election with traverse of Group I in Paper No. 7 is acknowledged. The traversal is on the ground(s) that the examination of Groups I, II, and III are require duplication of work. This is not found persuasive because while the Groups contain some common features, Groups II and III also contain features not required in Group I and therefore constitute a substantial burden with regard to examination.

The restriction requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 12-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

 Applicant timely traversed the restriction (election) requirement in Paper No. 7.
- 3. Claims 8-9, 11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 7.

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Art Unit: 1773

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over TSE ET AL (US 5,227,426).

TSE ET AL disclose a curable adhesive composition comprising an olefin polymer with pendent functional groups such as carboxyl or amide, and catalysts such as tetrabutyl phosphonium bromide, crown ethers, and/or tetrabutyl ammonium hydroxide (columns 12-16, 23-24; lines 5-16, col. 30) as recited in claims 1-3, 5-6, 10. However, the reference does not explicitly disclose the recited combination of a base and crown ether.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an effective combination of known catalysts as curing agents and use a commercially available crown ether such as 18-crown-6 ether in the adhesive composition of TSE ET AL depending on the particular functional groups and base polymer used, and the curing properties, adhesive and processing characteristics required by a given application.

Art Unit: 1773

6. Claims 1-4, 7, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over KUBILLUS ET AL (US 5,169,979).

KUBILLUS ET AL discloses a curable polyester composition suitable for adhesives comprising a polyester and catalysts such as sodium or potassium hydroxide, crown ethers, and/or tetrabutylammonium fluoride (lines 30-40, col. 4; lines 21-53, col. 9) as recited in claims 1-3, 7, 10. However, the reference does not explicitly disclose the recited combination of a base and crown ether.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an effective combination of known catalysts as curing agents and use a commercially available crown ether such as 18-crown-6 ether in the adhesive composition of KUBILLUS ET AL depending on the particular functional groups and base polymer used, and the curing properties, adhesive and processing characteristics required by a given application.

7. Claims 1-4, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over KRAFT ET AL (US 4,542,192).

KRAFT ET AL '192 discloses a curable polyester composition suitable for adhesives comprising a polyester and catalysts such as sodium or potassium hydroxide, crown ethers, and/or tetrabutylammonium fluoride (lines 1-34, col. 9; lines 1-39, col. 13) as recited in claims 1-3, 7. However, the references do not explicitly disclose the recited combination of a base and crown ether.

Art Unit: 1773

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an effective combination of known catalysts as curing agents and use a commercially available crown ether such as 18-crown-6 ether in the adhesive composition of KRAFT ET AL '192 depending on the particular functional groups and base polymer used, and the curing properties, adhesive and processing characteristics required by a given application.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

KRAFT ET AL (US 4,208,488) discloses a curable adhesive composition containing crown ethers.

Art Unit: 1773

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivian Chen whose telephone number is (703) 305-3551. The examiner can normally be reached on Monday-Thursday from 8:30 AM to 6:00 PM and on alternate Fridays from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Paul Thibodeau, can be reached on (703) 308-2367.

For Art Unit 1773, the fax phone numbers are as follows:

official faxes:	unofficial faxes:
(703) 305-3601	(703) 305-5436
(703) 305-7718	(703) 305-3602

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1700 receptionist whose telephone number is (703) 308-0661.

VC October 7, 2001

> Vivian Chen Primary Examiner Group 1700